

In the Abstract:

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ABSTRACT OF THE DISCLOSURE

The control unit controls mixed light illumination produced by a number of lighting units, especially for controlling LED lighting units used in microscopy. The lighting units are connected with the control unit and receive control signals from it. Respective parts of at least two of the lighting units are simultaneously controlled according to user commands, for example for interval control to simulate a moving light source or synchronized light sources. The user commands can be directly input by function keys and/or a foot switch and/or stored in a memory device of the control unit. Alternatively or in addition, the control unit can receive command statements from an external computer connected to an interface of the control unit or control signals from an external camera[.]]

A control unit for a microscope, a stereomicroscope, or an industrial image processing machine is described, to which at least three lighting units, e.g. for incident light-bright field illumination, incident light-dark field illumination, and for transmitted light illumination, are connected. Respective lighting units are simultaneously controlled according to user commands, e.g. for interval control to simulate a moving light source. The user commands can be input by function keys and/or a foot switch and/or stored in a memory provided in the control unit. Alternatively or in addition, the control unit can receive command statements from an external computer connected via an interface or control signals from an external camera. The control unit detects temperatures of the lighting units and shuts off a lighting unit or generates a warning signal when its temperature becomes excessive.